

0400
#3 0300



OIPF

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/038,407

TIME: 18:49:01

Input Set : N:\Crf3\RULE60\10038407.txt

Output Set: N:\CRF3\02072002\J038407.raw

4 <110> APPLICANT: Pinter, Abraham
 6 <120> TITLE OF INVENTION: HIV-1 gp120 V1/V2 DOMAIN EPITOPES
 7 CAPABLE OF GENERATING NEUTRALIZING ANTIBODIES
 10 <130> FILE REFERENCE: 07763-048001
 12 <140> CURRENT APPLICATION NUMBER: 10/038,407
 13 <141> CURRENT FILING DATE: 2002-01-02
 15 <150> PRIOR APPLICATION NUMBER: 09/508,208
 16 <151> PRIOR FILING DATE: 2000-03-08
 18 <150> PRIOR APPLICATION NUMBER: PCT/US98/18679
 19 <151> PRIOR FILING DATE: 1998-09-08
 21 <150> PRIOR APPLICATION NUMBER: 60/058,155
 22 <151> PRIOR FILING DATE: 1997-09-08
 24 <160> NUMBER OF SEQ ID NOS: 30
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 96
 30 <212> TYPE: PRT
 31 <213> ORGANISM: Human immunodeficiency virus (HIV)
 33 <400> SEQUENCE: 1
 34 Val Lys Leu Thr Pro Leu Cys Val Thr Leu Asn Cys Ile Asp Leu Arg
 35 1 5 10 15
 36 Asn Ala Thr Asn Ala Thr Ser Asn Ser Asn Thr Thr Asn Thr Thr Ser
 37 20 25 30
 38 Ser Ser Gly Gly Leu Met Met Glu Gln Gly Glu Ile Lys Asn Cys Ser
 39 35 40 45
 40 Phe Asn Ile Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala
 41 50 55 60
 42 Leu Phe Tyr Lys Leu Asp Ile Val Pro Ile Asp Asn Pro Lys Asn Ser
 43 65 70 75 80
 44 Thr Asn Tyr Arg Leu Ile Ser Cys Asn Thr Ser Val Ile Thr Gln Ala
 45 85 90 95
 47 <210> SEQ ID NO: 2
 48 <211> LENGTH: 34
 49 <212> TYPE: PRT
 50 <213> ORGANISM: Human immunodeficiency virus (HIV)
 52 <400> SEQUENCE: 2
 53 Gly Glu Ile Lys Asn Cys Ser Phe Asn Ile Thr Thr Ser Ile Arg Asp
 54 1 5 10 15
 55 Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr Lys Leu Asp Ile Val Pro
 56 20 25 30
 57 Ile Asp
 60 <210> SEQ ID NO: 3
 61 <211> LENGTH: 93

ENTERED

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62 <212> TYPE: PRT
63 <213> ORGANISM: Human immunodeficiency virus (HIV)
65 <400> SEQUENCE: 3
66 Leu Lys Pro Cys Val Lys Leu Thr Pro Leu Cys Val Thr Leu His Cys
67 1 5 10 15
68 Thr Asn Leu Lys Asn Ala Thr Asn Thr Lys Ser Ser Asn Trp Lys Glu
69 20 25 30
70 Met Asp Arg Gly Glu Ile Lys Asn Cys Ser Phe Lys Val Thr Thr Ser
71 35 40 45
72 Ile Arg Asn Lys Met Gln Lys Glu Tyr Ala Leu Phe Tyr Lys Leu Asp
73 50 55 60
74 Val Val Pro Ile Asp Asn Asp Asn Thr Ser Tyr Lys Leu Ile Asn Cys
75 65 70 75 80
76 Asn Thr Ser Val Ile Thr Gln Ala Cys Pro Lys Val Ser
77 85 90
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 7
81 <212> TYPE: PRT
82 <213> ORGANISM: Human immunodeficiency virus (HIV)
84 <400> SEQUENCE: 4
85 Glu Asn Leu Tyr Phe Gln Ser
86 1 5
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 7
90 <212> TYPE: PRT
91 <213> ORGANISM: Human immunodeficiency virus (HIV)
93 <400> SEQUENCE: 5
94 Glu Asn Leu Tyr Phe Gln Gly
95 1 5
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 28
99 <212> TYPE: PRT
100 <213> ORGANISM: Human immunodeficiency virus (HIV)
102 <400> SEQUENCE: 6
103 Ser Phe Asn Ile Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr
104 1 5 10 15
105 Ala Leu Phe Tyr Lys Leu Asp Val Val Pro Ile Asp
106 20 25
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 23
110 <212> TYPE: PRT
111 <213> ORGANISM: Human immunodeficiency virus (HIV)
113 <400> SEQUENCE: 7
114 Tyr Val Ser Asn Arg Gly Asn Arg Met Lys Arg Gln Asn Phe Leu Asn
115 1 5 10 15
116 Arg Tyr Ile Ile Ser Val Glu
117 20
119 <210> SEQ ID NO: 8
120 <211> LENGTH: 30

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121 <212> TYPE: PRT
122 <213> ORGANISM: Human immunodeficiency virus (HIV)
124 <400> SEQUENCE: 8
125 Pro Lys Leu Cys Val Lys Leu Thr Pro Leu Cys Val Gly Ala Gly Ser
126 1 5 10 15
127 Cys Asn Thr Ser Val Ile Thr Gln Ala Cys Pro Lys Val Ser
128 20 25 30
130 <210> SEQ ID NO: 9
131 <211> LENGTH: 15
132 <212> TYPE: PRT
133 <213> ORGANISM: Human immunodeficiency virus (HIV)
135 <400> SEQUENCE: 9
136 Ala Ser Val Lys Leu Thr Pro Leu Cys Val Thr Leu Asn Ser Ile
137 1 5 10 15
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 15
141 <212> TYPE: PRT
142 <213> ORGANISM: Human immunodeficiency virus (HIV)
144 <400> SEQUENCE: 10
145 Val Thr Leu Asn Cys Ile Asp Leu Arg Asn Ala Thr Asn Ala Thr
146 1 5 10 15
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 15
150 <212> TYPE: PRT
151 <213> ORGANISM: Human immunodeficiency virus (HIV)
153 <400> SEQUENCE: 11
154 Ala Thr Asn Ala Thr Ser Asn Ser Asn Thr Thr Asn Thr Thr Ser
155 1 5 10 15
157 <210> SEQ ID NO: 12
158 <211> LENGTH: 15
159 <212> TYPE: PRT
160 <213> ORGANISM: Human immunodeficiency virus (HIV)
162 <400> SEQUENCE: 12
163 Thr Asn Thr Thr Ser Ser Ser Gly Gly Leu Met Met Glu Gln Gly
164 1 5 10 15
166 <210> SEQ ID NO: 13
167 <211> LENGTH: 15
168 <212> TYPE: PRT
169 <213> ORGANISM: Human immunodeficiency virus (HIV)
171 <400> SEQUENCE: 13
172 Met Met Glu Gln Gly Glu Ile Lys Asn Cys Ser Phe Asn Ile Thr
173 1 5 10 15
175 <210> SEQ ID NO: 14
176 <211> LENGTH: 15
177 <212> TYPE: PRT
178 <213> ORGANISM: Human immunodeficiency virus (HIV)
180 <400> SEQUENCE: 14
181 Ser Phe Asn Ile Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu
182 1 5 10 15

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184 <210> SEQ ID NO: 15
185 <211> LENGTH: 15
186 <212> TYPE: PRT
187 <213> ORGANISM: Human immunodeficiency virus (HIV)
189 <400> SEQUENCE: 15
190 Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr Lys
191 1 5 10 15
193 <210> SEQ ID NO: 16
194 <211> LENGTH: 15
195 <212> TYPE: PRT
196 <213> ORGANISM: Human immunodeficiency virus (HIV)
198 <400> SEQUENCE: 16
199 Glu Tyr Ala Leu Phe Tyr Lys Leu Asp Ile Val Pro Ile Asp Asn
200 1 5 10 15
202 <210> SEQ ID NO: 17
203 <211> LENGTH: 19
204 <212> TYPE: PRT
205 <213> ORGANISM: Human immunodeficiency virus (HIV)
207 <400> SEQUENCE: 17
208 Lys Lys Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu
209 1 5 10 15
210 Phe Tyr Lys
213 <210> SEQ ID NO: 18
214 <211> LENGTH: 14
215 <212> TYPE: PRT
216 <213> ORGANISM: Human immunodeficiency virus (HIV)
218 <400> SEQUENCE: 18
219 Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr
220 1 5 10
222 <210> SEQ ID NO: 19
223 <211> LENGTH: 8
224 <212> TYPE: PRT
225 <213> ORGANISM: Human immunodeficiency virus (HIV)
227 <400> SEQUENCE: 19
228 Ser Thr Ser Ile Arg Gly Lys Val
229 1 5
231 <210> SEQ ID NO: 20
232 <211> LENGTH: 17
233 <212> TYPE: PRT
234 <213> ORGANISM: Human immunodeficiency virus (HIV)
236 <400> SEQUENCE: 20
237 Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr
238 1 5 10 15
239 Lys
242 <210> SEQ ID NO: 21
243 <211> LENGTH: 16
244 <212> TYPE: PRT
245 <213> ORGANISM: Human immunodeficiency virus (HIV)
247 <400> SEQUENCE: 21

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248 Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr
249 1 5 10 15
251 <210> SEQ ID NO: 22
252 <211> LENGTH: 14
253 <212> TYPE: PRT
254 <213> ORGANISM: Human immunodeficiency virus (HIV)
256 <400> SEQUENCE: 22
257 Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu
258 1 5 10
260 <210> SEQ ID NO: 23
261 <211> LENGTH: 13
262 <212> TYPE: PRT
263 <213> ORGANISM: Human immunodeficiency virus (HIV)
265 <400> SEQUENCE: 23
266 Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala
267 1 5 10
269 <210> SEQ ID NO: 24
270 <211> LENGTH: 12
271 <212> TYPE: PRT
272 <213> ORGANISM: Human immunodeficiency virus (HIV)
274 <400> SEQUENCE: 24
275 Thr Thr Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr
276 1 5 10
278 <210> SEQ ID NO: 25
279 <211> LENGTH: 15
280 <212> TYPE: PRT
281 <213> ORGANISM: Human immunodeficiency virus (HIV)
283 <400> SEQUENCE: 25
284 Ser Ile Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr Lys
285 1 5 10 15
287 <210> SEQ ID NO: 26
288 <211> LENGTH: 13
289 <212> TYPE: PRT
290 <213> ORGANISM: Human immunodeficiency virus (HIV)
292 <400> SEQUENCE: 26
293 Arg Asp Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr Lys
294 1 5 10
296 <210> SEQ ID NO: 27
297 <211> LENGTH: 12
298 <212> TYPE: PRT
299 <213> ORGANISM: Human immunodeficiency virus (HIV)
301 <400> SEQUENCE: 27
302 Asp Lys Val Gln Lys Glu Tyr Ala Leu Phe Tyr Lys
303 1 5 10
305 <210> SEQ ID NO: 28
306 <211> LENGTH: 365
307 <212> TYPE: PRT
308 <213> ORGANISM: Human immunodeficiency virus (HIV)
310 <400> SEQUENCE: 28

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/038,407

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Input Set : N:\Crf3\RULE60\10038407.txt

Output Set: N:\CRF3\02072002\J038407.raw